

REMARKS

Applicants respectfully request that the amendments be entered and considered prior to examination on the merits. Applicants respectfully provide the amendments to improve the form of the specification and claims. Moreover, Applicants respectfully submit that the amendments do not relate to any issue of patentability and do not narrow the scope of the claims. Further, Applicants respectfully submit that the amendments correspond to the amendments identified in the annexes to the International Preliminary Examination Report (IPER) in the PCT International Application of which this application is a national stage application, correct improper multiple dependent claims, or correct informalities. Accordingly, Applicants respectfully submit that the amendments do not introduce new matter. Thus, for at least these reasons, Applicant do not intend to relinquish any subject matter by these amendments.

Conclusion

The foregoing amendments are being made to place the application in condition for examination. A favorable action on the merits is respectfully solicited.

Attached hereto is a marked-up version of the changes made by the current amendment. The attachment is captioned "Version with markings to show changes made."

If there are any other fees due in connection with the filing of this paper, please charge the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under

37 C.R.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully Submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE TITLE:

Please amend the title as follows:

~~[WINDMILL WITH ILLUMINATED BLADES AND GENERATION OF]~~

APPARATUS FOR GENERATING ELECTRICAL ENERGY

IN THE SPECIFICATION:

Please amend the paragraph at page 1, lines 4-7 under the heading "Technical Field" as follows:

The present invention relates to an apparatus with generation of electrical energy, comprising a rotor with at least one coil, a stator with at least one magnet and at least one electrical consumer located on the rotor and connected to the at least one coil.

Please amend the paragraph at page 1, line 9-12, under the heading "Prior Art" as the following three paragraphs:

In apparatus with generation of electrical energy, comprising a rotor with at least one coil, a stator with at least one magnet and at least one electrical consumer, the at least one

~~[Apparatuses of this type are known wherein the]~~ consumer is generally located on the stator side. The electrical energy generated in the rotor is thus transmitted to the fixed part by means of sliding contacts.

Patent Abstracts of Japan Vol. 008, No. 250 (E-279), 16th November 1984 (1984-11-16)
and JP 59 1275566 A (Mobuo Kiyokawa) 23rd July 1984 (1984-07-23) disclose an apparatus
with generation of electrical energy, comprising a rotor with at least one coil, a stator with at
least one magnet and at least one electrical consumer, wherein on the rotor there is located a
diode bridge connected to the coil and connected to a further consumer. Where the further
consumer is located and of what type it is cannot be inferred from the document.

DE 27 10 148 A (Voith Getriebe KG) 14th September 1978 (1978-09-14) discloses a
blade rotor designed as a wind energy converter wherein electrical lights are located on the rotor.
These should form a closed advertising space for the eye when the rotor turns sufficiently
rapidly. The thus designed energy converter is provided with a generator which supplies the
current for the lights. For further details refer to Lueger, Lexikon der Technik, 1965, Vol. 7,
pages 574-581. In this additional literature wind power plants are described where a separate
generator with its own rotor is provided in each case in addition to the blade rotor. In this
arrangement the current for the lights is transmitted from the generator rotor to the blade rotor.

Please amend the paragraphs at page 1, line 14, to page 2, line 6, under the heading
"Description of the Invention" to read as the following three paragraphs:

The invention now proposes an apparatus of the [~~same type~~] type specified initially,
wherein [~~however~~]the at least one electrical consumer [~~is~~] located on the rotor and [~~is~~] there
connected to the at least one coil is a light-emitting element and/or a non-luminous signal
transmitter.

A particularly interesting and advantageous application of the invention is obtained if the apparatus is ~~[constructed]~~ designed as a windmill and the rotor is provided with blades. The invention is particularly suited ~~[to]~~ for this application because, as a result of the generation of electrical energy, sliding contacts between the rotor and the stator ~~[can be]~~ are dispensed with on the rotor and in addition a low running and starting resistance of the rotor can be achieved ~~[;]~~ which is ~~[of particular importance]~~ particularly important for a windmill.

If at least one light-emitting diode (LED) is used as the consumer on the rotor, this will light up as soon as the windmill begins to be turned by the wind. In particular, this can lead to attractive effects when a plurality of differently coloured light-emitting diodes are used on the blades of the windmill.

IN THE CLAIMS:

Please amend claims 1, 2, and 5-11 as follows:

1. (Amended) An apparatus ~~[for generating]~~ with generation of electrical energy, comprising:

a rotor ~~[(20)]~~ with at least one coil ~~[(22);]~~;

a stator ~~[(10)]~~ with at least one magnet ~~[(11)]~~ and at least one electrical consumer ~~[(23)]~~ characterised in that ~~the at least one electrical consumer is~~ located on the rotor and ~~[is]~~ connected to the at least one coil,

wherein the at least one consumer includes at least one of a light-emitting element and a nonluminous signal transmitter.

2. (Amended) The apparatus according to Claim 1, characterised in that it is designed as a windmill and the rotor is provided with blades [(21)].
5. (Amended) The apparatus according to [~~one of Claims 1—4~~] Claim 1, characterised in that the at least one magnet is a permanent magnet.
6. (Amended) The apparatus according to [~~one of Claims 1—5~~] Claim 1, characterised in that the at least one permanent magnet is mounted on a disk [(43)] comprising magnetic material.
7. (Amended) The apparatus according to [~~one of Claims 1—6~~] Claim 1, characterised in that several magnets are distributed uniformly around the circumference of the stator with respect to its axis and are preferably arranged with matching polarity (NNNN) relative to this axis.
8. (Amended) The apparatus according to [~~one of Claims 1—5~~] Claim 1, characterised in that the at least one coil has an air gap winding or an iron-free winding.

9. (Amended) The apparatus according to [~~one of Claims 1—9~~] Claim 1,
characterised in that the at least one coil is mounted on a disk made from a magnetic material
[(25)].

10. (Amended) The apparatus according to [~~one of Claims 1—9~~] Claim 1,
characterised in that the rotor is supported on a pin [(12)] of the stator.

11. (Amended) The apparatus according to [~~one of Claims 1—10~~] Claim 1,
characterised in that several series-connected coils [(A—D)] distributed uniformly over the
circumference of the rotor are provided and that several consumers [(a—d)] constructed as light-
emitting diodes are connected to these coils such that a first of the consumers [(e.g. a)] sees the
voltage generated in series in at least two of the coils [(e.g. A—D)] and a second consumer [(e.g.
b)] sees a voltage generated in series in at least one coil fewer [(e.g. B—D)].